



# PUBLIC NOTICE

**File Number: NRS 14.285**

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Pursuant to Chapter 0400-4-7 of the Department's rules, the proposed activity described below has been submitted for approval under an Aquatic Resource Alteration Permit and §401 Water Quality Certification. This notice is intended to inform interested parties of this permit application and to ask for comments and information necessary to determine possible impacts to water quality. No decision has been made whether to issue or deny this application.

**APPLICANT:** Tennessee Department of Transportation  
Environmental Permits Section  
Suite 900, James K. Polk Bldg.  
505 Deaderick St.  
Nashville, TN 37243  
615-253-2545

**LOCATION:** TDOT 71001-1195-44 PIN101577.00 I40 Interchange at Mine Lick Creek Road, Putnam County (Lat: 36.1406/ Lon:-85.5838)

**PROJECT DESCRIPTION:** The applicant proposes to create an interchange with I40 and Mine Lick Creek road including impacts to four unnamed tributaries.

## IMPACTS:

Impact 1: Latitude: 36.1406 Longitude:-85.5838  
Unnamed tributary to Cane Creek Station 25+92 (Ramp A)  
Existing 190 ft. of 8X7' box culvert and 65 ft. of open stream. Proposed 15' culvert extension and 50' riprap at the inlet.  
Debits: 15

Impact 2: Latitude: 36.1383 Longitude:-85.5817  
Unnamed tributary to Cane Creek (STR 1) Station 19+93 (Ramp D)  
Existing 146 ft. of 8X7' box culvert and 163 ft. of open stream. Proposed 122' culvert extension and 34' riprap at the outlet with a loss of 7 ft. of stream length.  
Debits: 129

Impact 3: Latitude: 36.1396 Longitude:-85.5829  
Unnamed tributary to Cane Creek (STR 1) Station 17+90 (Mine Lick Creek Road)  
Existing 40 ft. of 72" CMP to be removed and restored. Utility line crossings removal at this location.  
Credit: 40

Impact 4: Latitude: 36.1368 Longitude:-85.5790  
Unnamed tributary to Cane Creek (STR 1) Station 28+60 (Bennett Road)  
Existing 21 ft. of bridge (to be removed) and 220 ft. of open stream. Proposed 148 ft of 2@16X9' reinforced concrete box culvert with 19' riprap at the inlet and 20' riprap at the outlet and 23 ft.(12' inlet/11 outlet) of open channel with riprap bank stabilization with a loss of 31 ft. of stream length. Utility line crossings at this location.  
Debits: 158

Impact 5: Latitude: 36.1332 Longitude:-85.5809  
Unnamed tributary (STR 1-A) Station 14+11 (Bennett Road)  
Existing 41 ft. of 36" CMP and 130 ft. of open stream. Proposed 102 ft. of 2@6X3' box culvert and 61 ft. of open stream channel. Utility line crossings at this location.

Impact 6: Latitude: 36.1393 Longitude:-85.5829  
Unnamed tributary to Cane Creek (STR 2) Station 19+00 to 20+50+/- (Rt.) (Ramp D)  
Existing 134 ft. of open stream. Proposed 160 ft. of riprap lined channel.  
Debits: 134

Impact 7: Latitude: 36.1405 Longitude:-85.5761  
Unnamed tributary (STR 3) Station 21+28 (Ramp B)  
Existing 43 ft. of 48" RCP (to be removed) and 160 ft. of open stream. Proposed 113 ft. of 10X6' box culvert with 27' of open stream channel with riprap at outlet and 20' at inlet. Utility line crossings at this location.  
Debits: 70

Impact 8: Latitude: 36.1389 Longitude:-85.5757  
Unnamed tributary (STR 3) Station 19+09 (Ramp C)  
Existing 159 ft. of open stream. Proposed 115 ft. of 8X7' box culvert with 23' of open stream channel with riprap at outlet and 20' at inlet.  
Debits: 116

Impact 9: Latitude: 36.1427 Longitude:-85.5762  
Unnamed tributary (STR 3) Station 31+62 (Mine Lick Creek Road)  
Existing 151 ft. of open stream. Proposed 121 ft. of 12X5' box culvert with 17' of open stream channel with riprap at inlet and 22' at inlet. Utility line crossings at this location.  
Debits: 112

The impacts (encapsulation and elimination) listed above result in a total impact of 694 debits.

**WATERSHED / WATERBODY DESCRIPTION:** Cane Creek is part of the Caney Fork River watershed. This watershed encompasses parts of Bledsoe, Cannon, Cumberland, DeKalb, Putnam, Sequatchie, Smith, Van Buren, Warren, White and Wilson Counties. It is approximately 1,771 square miles and empties to the Cumberland River. There are 59 rare plant and animal species in the Caney Fork River Watershed. For more information on this watershed please visit <http://www.state.tn.us/environment/water/watersheds/lower-tennessee-river.shtml>

Cane Creek (TN05130108045\_0150) is in the Eastern Highland Rim Ecoregion (71g). The channel dimensions are as follows: channel bottom width 6-8', channel top width 8-10 ft. water depth 0-12" (series of pools), and bank height 3-4'. Typical substrate in this section is comprised of silt, gravel cobble.

Cane Creek was assessed in 2012. It is not supporting its designated uses. The specific uses that are not meeting use support and the causes are as follows: fish and aquatic life due to siltation. Therefore the stream is available for additional impacts to habitat.

<b>Stream Name / ID #:</b>	Cane Creek (TN05130108045_0150)		
<b>Ecoregion:</b>	Eastern Highland Rim Ecoregion (71g)		
<b>Stream Dimension:</b>	Channel bottom width	6-8'	
	Channel top width	8-10'	
	Water depth	0-12"	
	Bank height	3-4	
<b>Substrate:</b>	Cobble, gravel, silt		
<b>Designated Use</b>	<b>Use Support</b>	<b>Causes</b>	
Fish and aquatic life	Not supporting	Siltation/Sedimentation	
Recreation	Fully supporting		
Industrial water supply	Fully supporting		
Irrigation	Fully supporting		
Livestock watering & wildlife	Fully supporting		

This stream is available for additional impacts to habitat/unavailable for additional impacts to habitat.

Mitigation: Impacts on this proposal would require mitigation of 694 (debits) feet of stream. The applicant proposes to offset the impact by purchase of 694 ft. of available credits from the Tennessee In-lieu fee Stream Mitigation Program (TSMP) in the Caney Fork service area.

**Assessment Date:** 2012

**PERMIT COORDINATOR:** Brian Canada

**FACTORS CONSIDERED:** In deciding whether to issue or deny a permit, the department will consider all comments of record and the requirements of applicable federal and state laws. In making this decision, a determination will be made regarding the lost value of the resource compared to the value of any proposed mitigation. The department shall consider practicable alternatives to the alteration. The department shall also consider loss of waters or habitat, diminishment in biological diversity, cumulative or secondary impacts to the water resource, and adverse impact to unique, high quality, or impaired waters.

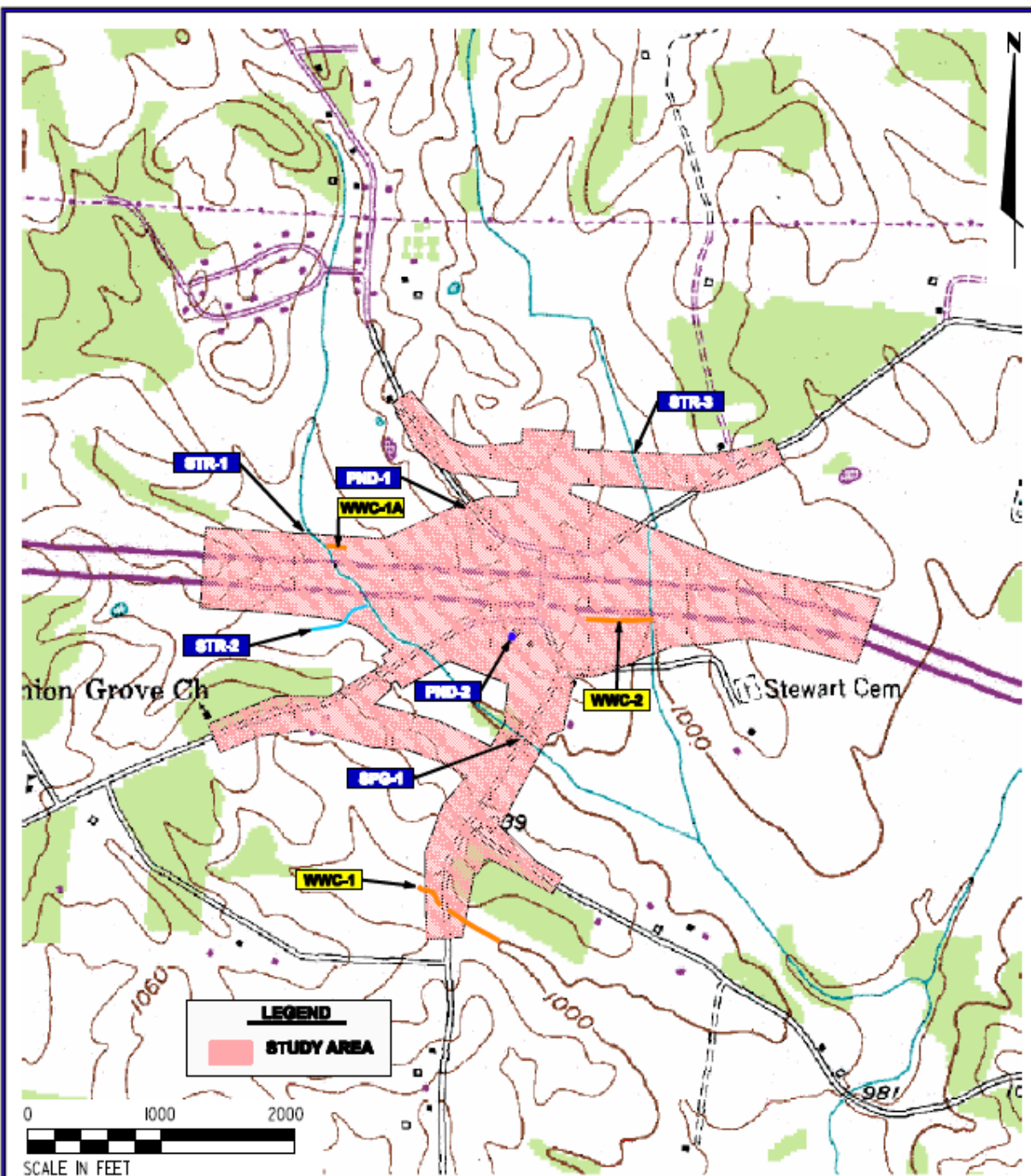
**COMMENTING:** Persons wishing to comment on the proposal are invited to submit written comments to the department. Written comments must be received within **thirty days of the date that this notice is posted**. Comments will become part of the record and will be considered in the final decision. The applicant's name and permit number should be referenced. Send all written comments to the department's address listed below and to the attention of the permit coordinator.

**PUBLIC HEARING:** Interested persons may request in writing that the department hold a public hearing on this application. The request must be filed within the comment period, indicate the interest of the person requesting it, the reasons that the hearing is warranted, and the water quality issues being raised. When there is sufficient public interest in water quality issues, the department will hold a public hearing. Send all public hearing request to the department's address listed below and to the attention of the permit coordinator.

**APPEAL:** A permit appeal may be filed, pursuant to T.C.A. §§ 69-3-105(i) and Rule 0400-40-05, by the permit applicant or by any aggrieved person who participated in the public comment period announced by this notice. This petition must be filed within THIRTY (30) DAYS after public notice of the issuance of the permit. The petition must specify what provisions are being appealed and the basis for the appeal. It should be addressed to the technical secretary of the Tennessee Board of Water Quality, Oil and Gas at the following address: Dr. Sandra Dudley, Director, Division of Water Resources, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Ave, 12<sup>th</sup> floor, Nashville, TN 37243. Any hearing would be in accordance with T.C.A. §§69-3-110 and 4-5-301 et seq.

**FILE REVIEW:** The permit application, supporting documentation including detailed plans and maps, and related comments are available at the department's address (listed below) for review and/or copying.

Tennessee Department of Environment & Conservation  
Division of Water Resources, Natural Resources Unit  
William R. Snodgrass Tennessee Tower  
312 Rosa L. Parks Avenue, 11th Floor  
Nashville, Tennessee 37243



#### FEATURE DESIGNATOR LEGEND

- STR-X** - STREAMS
- WWC-X** - WET WEATHER CONVEYANCE
- PND-X** - PONDS
- SPG-X** - SPRINGS

#### SCOPE G MAP

I-40 INTERCHANGE AT NINE LICK CREEK ROAD  
PUTNAM COUNTY, TENNESSEE



DRAWN BY:

JRC

CHECKED BY:

E SCHMIDT

DATE OF SURVEY: JUNE 4, 2012

TDOT PIN: 101577.00

P.E. No. J 71001-1155-66

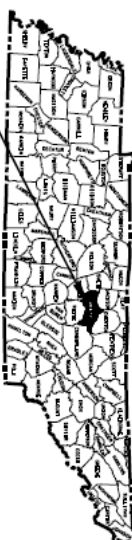
FIGURE 1

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BEGIN PROJECT (PRELIM.).
NH-I-40-6(130)280: 71001-1195-44
STA. 50+52.48 I-40
N = 657977.9426
E = 2090513.7896

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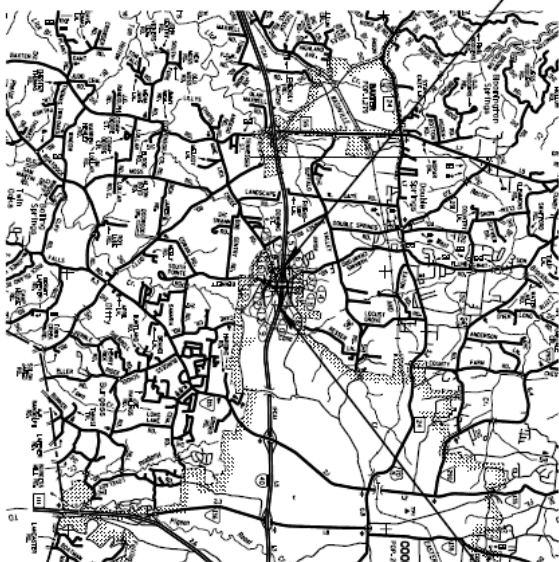
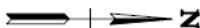
**INTERSTATE 40**  
INTERCHANGE AT  
MINE LICK CREEK RD. &  
I-40, LOG MILE - 15.560  
**PRELIMINARY**



TENN.	YEAR	SHEET NO.
	2012	1
FEI. AID PROJ. NO.	NH-1-40-6(1301280	
STATE PROJ. NO.	71001-1195-44	

PROJ. NH-I-40-6(130)280  
71001-1195-44

END PROJECT (PRELIM.)  
NH-I-40-6(130)280' 71001-1195-44  
STA. 99+00.42 I-40  
N = 657513.4653  
E = 2095329.3250

PRELIMINARY  
FIELD  
REVIEW

SCALE: 1" = 5280'

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PRELIM. LENGTH 0.701 MILES (TENNESSEE AVE.)
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## SPECIAL NOTES

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENSILEWEB DEPARTMENT OF TRANSPORTATION DATED MARCH 1, 2006 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

**ASSISTANT DIRECTOR** **FREDERICK MILLER, P.E.**

DESIGNER HNB PROFESSIONAL ENGINEERS, INC. CHECKED BY MICHAEL A. BIGGS, P.E.

P.E. NO. 71001-1195-4PIN NO. 101577.00

EQUATION	
DESCRIPTION (LEE SEMINARY RD.)	NET EFFECT ON EVALUATION
STA. 32+85.36 BM. = STA. 10+22.78 AH.	2262.58
TOTAL	2262.58

## **NO EXCLUSIONS**

SEALED BY	
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APPROVED:

906

DATE:

APPROVED:

JOHN SCHROEDER, COMMISSIONER

TRAFFIC DATA	
ADT (2013) (TENNESSEE AVE.)	28700
ADT (2013) (TENNESSEE AVE.)	295000
DIV (2013) (TENNESSEE AVE.)	2339
D	-
T (ADT)	5.5
T (DIV)	5.5
V (TENNESSEE AVE.)	45 MPH
V ( ) - AD	70 MPH

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

**APPENDIX**

DIVISION ADMINISTRATOR DATE